

**Dr. Magdalene N. Ngeve**

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**Education**

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| 2017 | <b>Ph.D. in Biology (Conservation Ecology and Genetics),</b><br>Vrije Universiteit Brussel, Belgium<br>Advisors: Prof. Dr. Ludwig Triest & Prof. Dr. Nico Koedam |
| 2013 | <b>M.S in Biology (Environment, Biodiversity and Ecosystems),</b><br>Vrije Universiteit Brussel, Belgium<br>Advisor: Prof. Dr. Marc Kochzius                     |
| 2010 | <b>B.S in Zoology (minor: Medical Laboratory Technology),</b><br>University of Buea, Cameroon<br>Advisor: Dr. Konje Christina                                    |

**Research and Professional Experience**

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| 2021-Present | Lecturer, Department of Entomology, University of Maryland, College Park<br>Supervisor: Prof. Dr. Leslie Pick<br><i>Full time 40+ hours per week</i>   |
| 2021-Present | Maryland's AGEP PROMISE Academy Fellow, University of Maryland, College Park (an NSF- funded program to diversify biological faculty within the University System of Maryland)<br>Director: Prof. Dr. Robin Cresiski<br>Supervisor: Prof. Dr. Maile Neel |
| 2018-2021    | University of Maryland's President's Postdoctoral Fellow (Research Associate)<br>University of Maryland, College Park<br>Supervisor: Prof. Dr. Maile Neel<br><i>Full time 40+ hours per week</i>   |
| 2018-2021    | Adjunct Instructor, University of Maryland, College Park<br>ENTM747 <i>Pollinator Health</i> ; ENTM720 <i>Native, Invasive, and Exotic Species</i><br><i>Part time ~ 10 hours per week</i>   |
| 2013-2017    | Graduate Student Researcher*, Vrije Universiteit Brussel, Belgium<br>Supervisor: Prof. Dr. Ludwig Triest<br><i>Full time ~ 40 hours per week</i>   |
| 2013-2017    | *Teaching Assistant, Vrije Universiteit Brussel, Belgium<br>Supervisor: Prof. Dr. Ludwig Triest  |

*Part time ~ 5 hours per week*

- 2014-2016 Fieldwork and field experiment coordinator
- 2015-2016 Educational Campaign and capacity building, rural mangrove communities
- 2011-2011 Latex Laboratory Technician, IRAD Cameroon – Ekona Station
- 2009-2011 Medical Laboratory Technician, South West Regional Hospital Annex, Buea

*Volunteer experience and Internships*

- 2016-2018 Research Coordinator: Mangrove Ecosystem Program, RCESD, Cameroon
- 2012 Ecology Intern, Vrije Universiteit Brussel, Belgium
- 2009-2010 Counselor, SW Regional Hospital Annex, Buea, Cameroon

*\* Activities which were part of my responsibilities as a graduate student*

## Relevant Professional expertise

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1. **Research Systems:** Coastal (intertidal), riparian, and riverine ecosystems
2. **Research approaches:** Field experimentation (e.g., hydrochorous propagule dispersal) and field sampling (plant material)  
Multiple-geographical scale research  
Integrating local ecological knowledge and scientific knowledge for restoration and conservation  
Grassroot restoration/conservation projects (BeeMangrove)  
Data curation and analytical skills  
Team-based and independent research skills
3. **Manuscript and grant writing**
4. **Outreach:** Educational workshop and mentorship  
Scientific presentation  
**Teaching** undergraduate and graduate levels courses and labs
5. **Laboratory skills: Molecular techniques** (nucleic acid extraction and purification; DNA cloning, Polymerase Chain Reaction (PCR), Next Generation Sequencing (NGS) library preparation and sequencing.  
**Elementary analyses:** Inductively Coupled Plasma Mass Spectrometry (ICP-MS),  
Sample **lyophilization and digestion:** CEM MARS 5 oven
6. **Bioinformatics** skills, bash/batch scripting and coding in *R*, for NGS data processing
7. **Management:** Multi-project management and realization

## Scientific Contribution

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### Publications in Peer-Reviewed Journals and in preparation

- Marsden BW, **Ngeve MN**, Neel MC (2021). Assessing the potential for extrapolating restoration and management based on genetic diversity to ecologically similar but geographically isolated locations in the submersed aquatic plant *Vallisneria americana*. *Estuaries and Coasts*.
- **Ngeve MN**, Koedam N., & Triest L (2021). Genotypes of *Rhizophora* propagules from a non-mangrove beach provide evidence of recent long-distance dispersal. *Frontiers in Conservation Science*
- Triest L, Van der Stocken T, De Ryck D, Kochzius M, Lorent S, **Ngeve M**, Ratsimbazafy HA, Sierens T, van der Ven R, & Koedam N (2021). Expansion of the mangrove species *Rhizophora mucronata* in the Western Indian Ocean launched contrasting genetic patterns. *Scientific Reports*.
- **Ngeve MN**, Koedam N, & Triest L (2020). Runaway fathers? Limited pollen dispersal and mating system in *Rhizophora racemosa* populations of a disturbed mangrove estuary. *Aquatic Botany*.

- **Ngeve MN**, Van der Stocken T, Menemenlis D, Koedam N, & Triest L (2017). Hidden founders? Strong bottlenecks and fine-scale genetic structure in mangrove populations of the Cameroon Estuary complex. *Hydrobiologia*.
- **Ngeve MN**, Van der Stocken T, Sierens T, Koedam N, & Triest L (2017). Bidirectional gene flow on a river mangrove landscape and between-catchment dispersal of *Rhizophora racemosa* (Rhizophoraceae). *Hydrobiologia*.
- **Ngeve MN**, Van der Stocken T, Menemenlis D, Koedam N, & Triest L (2016). Contrasting effects of historical sea level rise and contemporary ocean currents on regional gene flow of *Rhizophora racemosa* in Eastern Atlantic mangroves. *Plos One*.
- **Ngeve MN**, Leermakers M, Elskens M & Marc Kochzius (2015). Assessment of trace metal pollution in sediments and intertidal fauna at the coast of Cameroon. *Environ Monit Assess*.
- **Ngeve MN**, Engelhardt KAM, Gray M, & Neel MC (*in prep*). Swimming against the tide: Patterns of Genetic connectivity and discontinuity among *Vallisneria americana* populations of a periodically disturbed Riverbed (pdf available upon request).
- **Ngeve MN**, Engelhardt KAM, Gray M, & Neel MC (*in prep*). Calm after the storm? Similar patterns of Genetic variation in *Vallisneria americana* populations in the lower Hudson Estuary before and after Hurricane Irene and Tropical Storm Lee (pdf available upon request).
- **Ngeve MN**, Engelhardt KAM, Gray M, & Neel MC (*in prep*). When high connectivity does not result in high genetic diversity: Patterns of genotypic and genetic diversity in *Vallisneria americana* populations of highly disturbed riverscape (pdf available upon request).

#### Oral and Poster presentations

- **Ngeve MN**. Calm after the storm? Genetic variability in *Vallisneria americana* populations of the lower Hudson Estuary before and after 2011 Hurricane Irene and Tropical Storm Lee. ESA Annual Meeting (Online audio-enabled poster presentation). August 2<sup>nd</sup> - 6<sup>th</sup>, 2021.
- **Ngeve MN**. Calm after the storm? Genetic variability in *Vallisneria americana* populations of the lower Hudson Estuary before and after 2011 Hurricane Irene and Tropical Storm Lee. ESA Annual Meeting (Online oral presentation). August 2<sup>nd</sup> - 6<sup>th</sup>, 2020.
- **Ngeve MN**. Patterns and scales of mangrove genetic connectivity, Entomology Spring Semester Seminar Series, University of Maryland, College Park. February 8, 2019.
- **Ngeve MN**, Van der Stocken T, Koedam N, & Triest L. Patterns of regional- and local- scale genetic connectivity in Eastern Atlantic mangroves. VLIZ Marine Science Day 2017, Brugge, Belgium. March 3, 2017. (Oral presentation, 5' pitch)
- Tonné N, Van der Stocken T, van Zon A, De Ryck D, **Ngeve M**, Van Nederveelde F, Venterink HO, Dahdouh-Guebas F, Triest L, Koedam N. Coming of age - The mangrove propagule, parental investment and the dual functionality towards autonomy and establishment. European Conference of Tropical Ecology Brussels, Belgium. February 7, 2017. (Oral presentation).
- **Ngeve MN**, Van der Stocken T, Koedam N, & Triest L. Hidden founders or high connectivity or both? Investigating the expansion pathway of mangroves along the Cameroonian coastline. European Conference of Tropical Ecology Brussels, Belgium. February 9, 2017. (Oral presentation).
- **Ngeve MN**, Van der Stocken T, Menemenlis D, Koedam N, & Triest L. Contrasting effects of historical sea level rise and contemporary ocean currents on regional gene flow of *Rhizophora racemosa* in Eastern Atlantic mangroves. The Mangrove & Macrobenthos Meeting (MMM4), Florida, USA. July 18- 22, 2016. (Poster presentation).
- **Ngeve MN**, Sierens T, Koedam N, & Triest L. Bidirectional gene flow on a river mangrove landscape and between-catchment dispersal of *Rhizophora racemosa* (Rhizophoraceae). Book of

abstracts – European conference of tropical ecology Göttingen, Germany. 23 February 2016 (Oral presentation).

- **Ngeve MN**, Sierens T, Koedam N, & Triest L. Connected but not exactly one: The genetic hierarchy in mangroves of a river linear landscape in Cameroon is caused by hydrological factors. Book of abstracts PhD day – Doctoral School of Natural Sciences and (Bioscience) Engineering (NSE). Brussels, Belgium 22 May 2015. (Poster & pitch presentation).
- **Ngeve MN.**, Elskens, M., Leermakers, M., Kochzius, M. Influence of trace metal and organic pollution on the community structure of intertidal gastropods at the coast of Cameroon, in: Mees, J. et al. (Ed.) (2013). Book of abstracts – VLIZ Young Marine Scientists' Day. Brugge, Belgium, 15 February 2013. VLIZ Special Publication, 63: pp. 74. (Poster presentation).

## Awards, Grants, and Fellowships

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2021 - Present	Maryland's AGEP PROMISE Academy Fellow, University of Maryland, College Park (an NSF- funded program to diversify biological faculty within the University System of Maryland)
2019-2021	University of Maryland's President's Postdoctoral Fellowship Program Postdoctoral Fellowship (> \$115,000)
2013-2017	Vrije Universiteit Brussel-International Relations and Mobility Office Doctoral Fellowship (> €150,000)
2015 -2016	Rufford Foundation, United Kingdom First and Second Small Grant (£10000)
2011-2013	Vrije Universiteit Brussel-International Relations and Mobility Office Masters Scholarship (> €55, 000).
2007-2010	Cameroon Government Presidential Excellence Award University of Buea (~ \$300)

## Language Proficiency

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English	Full professional proficiency/mother tongue
French	Moderate proficiency (in training)
Dutch	Elementary proficiency (in training)
R	Elementary programming

## Teaching and Mentoring Experience

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2020	Guest lecture, Roosevelt University – Genetics introductory class <i>Disturbance ecology through the lens of a population geneticists: basic concepts, relevance, and case-study</i>
2018-present	Adjunct (online) Lecturer, University of Maryland ENTM747: "Pollinator Health" ENTM 720: "Native, Invasive, and Exotic Species"
2013-2017	Laboratory Instructor, Vrije Universiteit Brussel, Belgium "Conservation Genetics" practical (masters and 3 <sup>rd</sup> bachelor levels)
2014-2016	Teaching assistant, Vrije Universiteit Brussel

- 2015-2016      Molecular Ecology” 3<sup>rd</sup> year bachelor class  
Mentoring students’ research projects  
One Masters and four Bachelor students
- 2003-2015      Peer-Education, Buea, Cameroon  
Education and mentoring of young girls and teen parents in rural areas  
- Relevance of education  
- Prevention of teenage pregnancies  
- Prevention of sexually transmitted infections

## Professional Service

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Journal Reviews: *Journal of Ecology*; *Marine Ecology Progress Series*; *PLOS ONE*; *Forests*; *Plant Ecology & Diversity*; *Environmental Monitoring Assessment*

## References

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Dr. Maile Neel (Postdoc supervisor, Director of the Norton-Brown Herbarium, Professor)  
University of Maryland College Park, Department of Plant Science and Landscape Architecture &  
Department of Entomology, AGNR & CMNS  
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Dr. Ludwig Triest (Ph.D. advisor, Professor)  
Vrije Universiteit Brussel, Belgium, Department of Biology and Bioengineering Sciences  
ludwig.triest@vub.be | +32-2-6293421

Dr. Nico Koedam (PhD co-advisor, Professor))  
Vrije Universiteit Brussel, Belgium, Department of Biology and Bioengineering Sciences  
nikoedam@vub.be | +32-2-6293413

Dr. Marcia Shofner (Director MPAE Program, Senior Lecturer)  
University of Maryland College Park, Department of Entomology, CMNS  
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Dr. Emily Dangremond (Assistant Professor)  
Roosevelt University, Department of Biological, Chemical and Physical Sciences  
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